

AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

Listing of the Claims

1– 45. (Cancelled).

46. (Currently Amended) A process for producing a plant culture cell for protein production, comprising:

a first transforming step of transfecting a plant culture cell with a plasmid, the plasmid comprising a transcription factor-expressing DNA fragment comprising in which

a coding gene of a transcription factor; ~~is ligated to~~ and

a promoter for expressing the transcription factor;

a screening step of screening plant culture cells, obtained in the first transforming step, for an individual plant culture cell expressing the transcription factor; and

a second transforming step of transfecting the individual plant culture cell, obtained in the screening step, with a plasmid, the plasmid comprising a protein-expressing DNA fragment comprising in which

cDNA of a RNA virus vector, ~~that has been constructed by inserting having incorporated therein~~ a coding gene of an arbitrary encoding a target protein into ~~[[an]]~~ the RNA virus vector cDNA; is ligated to

an inducible promoter which is induced by the transcription factor~~[[,]]~~; and wherein

a ribozyme sequence of satellite tobacco ringspot virus ~~[[is]]~~ ligated to the 3' end of the RNA virus vector cDNA.

47. (Currently Amended) A process for producing a plant culture cell for protein production as set forth in claim 46, wherein the transcription factor has a property of being activated by a hormone.

48. (Currently Amended) A process for producing a plant culture cell for protein production as set forth in claim 47, wherein the hormone comprises estrogen or a steroid hormone.

49. (Previously Presented) A process for producing a plant culture cell for protein production as set forth in claim 48, wherein LexA-VP16-hER is used as the transcription factor having a property of being activated by estrogen, and wherein O_{LexA}-46 is used as the inducible promoter.

50. (Currently Amended) A process for producing a plant culture cell for protein production as set forth in claim 46, wherein the RNA virus vector cDNA originates in a virus that includes single strand (+) RNA.

51. (Currently Amended) A process for producing a plant culture cell for protein production as set forth in claim 50, wherein the RNA virus vector cDNA originates in a plant virus.

52. (Currently Amended) A process for producing a plant culture cell for protein production as set forth in claim 51, wherein the RNA virus vector cDNA originates in a plant virus that has a suppressor against a silencing reaction of plants.

53. (Currently Amended) A process for producing a plant culture cell for protein production as set forth in claim 52, wherein the RNA virus vector cDNA originates in a tobamovirus.

54. (Currently Amended) A process for producing a plant culture cell for protein production as set forth in claim 53, wherein the RNA virus vector cDNA comprises one of tomato mosaic virus vector and tobacco mosaic virus vector.

55. (Cancelled)

56. (Cancelled)

57. (Currently amended) A process for producing a plant culture cell for protein production as set forth in claim 46, wherein ~~the coding gene of an arbitrary protein is substituted with a gene that encodes a coat protein of the virus~~ the gene encoding the target protein replaces a viral coat protein gene.

58. (Previously presented) A process for producing a plant culture cell for protein production as set forth in claim 46, wherein the transcription factor-expressing DNA fragment and the protein-expressing DNA fragment are transfected by an Agrobacterium method.

59. (Cancelled).

60. (Previously presented) A process for producing a plant culture cell for protein production as set forth in claim 46, wherein the plant culture cells comprise tobacco cells.

61. (Previously presented) A process for producing a plant culture cell for protein production as set forth in claim 60, wherein the tobacco cells comprise tobacco BY-2 cells.

62. (Previously presented) A plant culture cell for protein production, which is produced by the process for producing a plant culture cell for protein production as set forth in claim 46.

63. (Previously presented) A protein producing process, which uses the plant culture cell for protein production as set forth in claim 62.

64-65. (Cancelled)